Notice of Allowability	Application No.	Applicant(s)		
	09/818,688	WU, YOUFENG		
	Examiner	Art Unit		
	Ted T. Vo	2191		
The MAILING DATE of this communication appeals all claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Right of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate committee (GHTS). This application is s	n this application. If not included unication will be mailed in due co	l ourse. THIS	
1. This communication is responsive to <u>09/02/05</u> .				
2. ☑ The allowed claim(s) is/are <u>1-29</u> .				
 3. Acknowledgment is made of a claim for foreign priority urea. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No	on from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requ	irements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date	·			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	r in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATI FOR THE DEPOSIT OF BIO	ERIAL must be submitted. No DLOGICAL MATERIAL.	ite the	
Attachment(s)	5 □ Nation of In	formal Datant Application (DTA	452)	
 Notice of References Cited (PTO-892) Draftperson's Patent Drawing Review (PTO-948) 		Iformal Patent Application (PTO-	152)	
	Paper No.	 Interview Summary (PTO-413), Paper No./Mail Date 		
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. ☐ Examiner's	Amendment/Comment		
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	 9.	Statement of Reasons for Allow	<i>r</i> ance	
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Application/Control Number: 09/818,688

Art Unit: 2191

1. The amendment and arguments filed on 09/02/05 have been considered.

The Drawings filed on 07/29/01 are accepted.

Prior arts of record, Duesterwald et al., "Software Profiling for Hot Path Prediction: Less is More", ACM 2000, Conte et al., "Using Branch Handling Hardware to Support Profile-Driven Optimization", ACM, 1994, and Wu et al., "An Efficient Software-Hardware Collaborative Profiling Technique for Wide-Issue Processors", 1999, remain the closet arts in searching.

Reasons for Allowance

2. Claims 1-29 are allowed.

Prior of record, Duesterwald, discloses profile change transition and discusses profiling hardware and sampling. The profile change transition is determined in association with threshold values. Prior of record, Conte, describes arc-based profiling which places thresholds on the programming arcs and records the execution frequency along the arcs. It uses branch prediction hardware to support the profiling. Prior art of record, Wu, disclose using profiling hardware to detect profile information in a program.

Applicants' arguments in the remarks section (filed on 09/02/05) that these prior arts of record fails to teach "signaling profile transitions to a dynamic optimizer by the profiling hardware"; particularly, Applicants pointing out that Wu fails to disclose generating an interrupt signal by hardware when profile transition occurs (limitation in Claim 10). The Applicants' arguments are persuasive.

Therefore, the following is an examiner's statement of reasons for allowance: The cited prior arts taken alone or in combination fail to teach claimed invention comprising at least features,

"signaling profile transitions to a dynamic optimizer by the profiling hardware" as recited in independent Claims 1, 19, and "a second logic device connected to the profile cache to generate a phase interrupt signal" as recited in Claim 10.

Any inquiry concerning this communication or earlier communications from the examiner should 3. be directed to Ted T. Vo whose telephone number is (571) 272-3706. The examiner can normally be reached on 8:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708.

The facsimile number for the organization where this application or proceeding is assigned is the Central Facsimile number 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ted T. Vo

Primary Examiner Art Unit 2191

November 08, 2005